

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P3S2004228	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/JP2005/001299	International filing date (<i>day/month/year</i>) 25.01.2005	Priority date (<i>day/month/year</i>) 20.02.2004
International Patent Classification (IPC) or national classification and IPC F01C13/04 (2006.01) , F01C1/02 (2006.01) , F04B35/00 (2006.01) , F04C18/02 (2006.01) , F04C23/02 (2006.01) , F25B9/00 (2006.01)		
Applicant TOYOTA JIDOSHA KABUSHIKI KAISHA		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>5</u> sheets, as follows: <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (sent to the International Bureau only) a total of _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

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International application No.

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Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-27 as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. 5-7, 15, 21 as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 1, 4, 8, 10, 14, 19 received by this Authority on 12.12.2005
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets 1-23 as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☒ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☒ the claims, nos. 2-3, 9, 11-13, 16-18, 20, 22-23
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement		
	Novelty (N)	Claims <u>1, 4-8, 10, 14-15, 19, 21</u>	YES
		Claims _____	NO
	Inventive step (IS)	Claims <u>1, 4-8, 10, 14-15, 19, 21</u>	YES
		Claims _____	NO
	Industrial applicability (IA)	Claims <u>1, 4-8, 10, 14-15, 19, 21</u>	YES
		Claims _____	NO
2.	Citations and explanations (Rule 70.7)		
	<p>None of the documents cited in the international search report sets forth the following features, and said features would not be obvious to a person skilled in the art.</p> <p>The feature set forth in claim 1, wherein "heat transferred from the aforementioned scroll compressor to the aforementioned spiral partition is radiated to the outside via the aforementioned compressor case".</p> <p>The feature set forth in claim 8, wherein "the wall surface of the aforementioned expander is left damp".</p> <p>The feature set forth in claim 10, wherein "the aforementioned spiral partition and the aforementioned compressor case are made from heat-conductive materials, and the aforementioned expander case is made from heat-resistant materials".</p> <p>The feature set forth in claim 19, wherein "the aforementioned scroll compressor has a compressor case provided to the aforementioned first single side, and the scroll expander has an expander case provided to the</p>		

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

aforementioned second single side, and the aforementioned compression operation fluid path has through-holes which are formed in the aforementioned spiral partition, and said through-holes link the inside of the aforementioned compressor case to the inside of the aforementioned expander case".

Therefore, the inventions set forth in claims 1, 8, 10 and 19, and claims 4 to 7, 14, 15 and 21 which refer back to any one of these claims, are novel and involve an inventive step.